

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	154844	( ( gamut\$1 colo\$1r\$1 ) NEAR3 ( mapping map\$1 mapped match\$3 correct\$3 correction\$1 characteri\$1ation\$1 characteri\$1e\$1 characteri\$1ing convert\$3 conversion\$1 ) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 18:47
L2	26120	( compress\$3 compression\$1 ) NEAR5 ( luminance luma luminosity brightness lightness L\$1 Y intensity )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 18:47
L3	7242	( clip\$4 ) NEAR5 ( luminance luma luminosity brightness lightness L\$1 Y intensity )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 18:47
L4	160569	( ( range\$1 (dynamic ADJ range\$1) ) NEAR5 ( luminance luma luminosity brightness lightness L\$1 Y intensity ) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 18:47
L5	348883	( ( ( pre\$1serv\$3 preservation\$1 maintain\$3 retain\$3 enhanc\$3 enhancement\$1 improv\$3 improvement\$1 emphasi\$1ing emphasi\$1e\$1 emphasis expand\$3 expansion\$1 maximi\$1ing maximi\$1e\$1 maximum boost\$3 increas\$3 rais\$3 strengthen\$3 intensify\$3 intensifie\$1 decreas\$3 degrad\$3 diminish\$3 diminishment\$1 deteriorat\$3 deterioration\$1 destroy\$3 lessen\$3 lower\$3 reduc\$3 reduction\$1 compress\$3 compression\$1 attenuat\$3 attenuation\$1 weaken\$3 ) NEAR5 ( contrast (overall NEAR3 contrast) detail\$1 ( ( image\$1 picture\$1 photo\$1 photograph\$1 ) NEAR5 ( detail\$1 feature\$1 characteristic\$1 distinction\$1 nuance\$1 subtlet\$3 ) ) ( ( detail\$1 feature\$1 characteristic\$1 distinction\$1 nuance\$1 subtlet\$3 ) NEAR5 ( shadow\$1 ( ( low lower reduced ) NEAR3 ( luminance luma luminosity brightness lightness L\$1 Y ) ) high\$1light\$1 mid\$1tone\$1 ) ) ) ( ( mapping map\$1 mapped match\$3 ) NEAR5 ( "same" identical equal similar alike indistinguishable ) NEAR5 ( luminance luma luminosity brightness lightness L\$1 Y intensity ) ) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 18:47

## EAST Search History (Prior Art)

L6	293907	<pre>( ( ( vary\$3 varies varied variation\$1     changing change\$1 alter\$4 alteration\$1     adjust\$3 adjustment\$1 adapt\$3 adaptive\$2     convert\$3 conversion\$1 ) NEAR5 ( spatial\$2         local\$2 locali\$1e\$1 neighbor\$3         neighborhood\$1 bordering nearby         adjoining\$2 close adjacent\$2 contiguous\$2         proximate\$2 ) ) ( spatial\$2 local\$2         locali\$1e\$1 neighbor\$3 neighborhood\$1         bordering nearby adjoining\$2 close         adjacent\$2 contiguous\$2 proximate\$2 ) )         WITH ( luminance luma luminosity         brightness lightness L\$1 Y intensity ( (         luminance luma luminosity brightness         lightness L\$1 Y intensity ) NEAR5 ( range\$1         (dynamic ADJ range\$1) ) ( ( luminance         luma luminosity brightness lightness L\$1 Y         intensity ) NEAR5 ( mapping map\$1 mapped         match\$3 correct\$3 correction\$1 convert\$3         conversion\$1 ) ) ) )</pre>	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 18:47
L7	11920	<pre>( ( ( shadow\$1 ( ( low lower reduced )     NEAR3 ( luminance luma luminosity     brightness lightness L\$1 Y intensity ) ) )     NEAR5 ( area\$1 region\$1 sub\$1area\$1 (sub         ADJ area\$1) sub\$1regions\$1 (sub ADJ         region\$1) ) ) ( shadow\$1 ( ( low lower         reduced ) NEAR3 ( luminance luma         luminosity brightness lightness L\$1 Y         intensity ) ) ) ) NEAR10 ( filter\$3 (filter\$3     NEAR5 (low\$1pass (low ADJ pass))) blur\$4 )</pre>	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 18:47
L8	757	(L1 L2 L3 L4) AND L5 AND L6 AND L7	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 18:47
L9	431	(L1 L2 L3 L4) AND ((L5 L6) SAME L7)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 18:47
L10	2095	(L1 L2 L3 L4) AND (L5 L6) AND L7	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 18:47
L16	244414	<pre>( ( gamut\$1 colo\$1r\$1 TONE\$1 ) NEAR8 (      mapping map\$1 mapped match\$3 correct\$3     correction\$1 characteri\$1ation\$1     characteri\$1e\$1 characteri\$1ing convert\$3     conversion\$1 ) )</pre>	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 18:57

## EAST Search History (Prior Art)

L17	41650	( compress\$3 compression\$1 ) NEAR8 ( luminance luma luminosity brightness lightness L\$1 Y intensity TONE\$1 )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 18:57
L18	10292	( clip\$4 ) NEAR8 ( luminance luma luminosity brightness lightness L\$1 Y intensity TONE\$1 )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 18:58
L20	561968	( ( ( range\$1 (dynamic ADJ range\$1) ) SAME ( luminance luma luminosity brightness lightness L\$1 Y intensity TONE\$1 ) ) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 18:59
L21	628097	( ( ( pre\$1serv\$3 preservation\$1 maintain\$3 retain\$3 enhanc\$3 enhancement\$1 improv\$3 improvement\$1 emphasi\$1ing emphasi\$1e\$1 emphasis expand\$3 expansion\$1 maximi\$1ing maximi\$1e\$1 maximum boost\$3 increas\$3 rais\$3 strengthen\$3 intensify\$3 intensifie\$1 decreas\$3 degrad\$3 diminish\$3 diminishment\$1 deteriorat\$3 deterioration\$1 destroy\$3 lessen\$3 lower\$3 reduc\$3 reduction\$1 compress\$3 compression\$1 attenuat\$3 attenuation\$1 weaken\$3 ) NEAR8 ( contrast (overall NEAR3 contrast) detail\$1 TONE\$1 ( ( image\$1 picture\$1 photo\$1 photograph\$1 ) NEAR8 ( detail\$1 feature\$1 characteristic\$1 distinction\$1 nuance\$1 subtlet\$3 ) ( ( detail\$1 feature\$1 characteristic\$1 distinction\$1 nuance\$1 subtlet\$3 ) NEAR8 ( shadow\$1 DARK\$3 ( ( low lower reduced ) NEAR5 ( luminance luma luminosity brightness lightness L\$1 Y TONE\$1 ) ) high\$1light\$1 LIGHT\$3 mid\$1tone\$1 ) ) ) ( ( mapping map\$1 mapped match\$3 ) NEAR8 ( "same" identical equal similar alike indistinguishable ) NEAR8 ( luminance luma luminosity brightness lightness L\$1 Y intensity TONE\$1 ) ) ) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 19:02

## EAST Search History (Prior Art)

L22	325939	<pre> ( ( ( vary\$3 varies varied variation\$1 VARIANT VARIABL\$1 changing change\$1 alter\$4 alteration\$1 adjust\$3 adjustment\$1 adapt\$3 adaptive\$2 convert\$3 conversion\$1 ) NEAR8 ( spatial\$2 local\$2 locali\$1e\$1 neighbor\$3 neighborhood\$1 bordering nearby adjoining\$2 close adjacent\$2 contiguous\$2 proximate\$2 ) ) ( spatial\$2 local\$2 locali\$1e\$1 neighbor\$3 neighborhood\$1 bordering nearby adjoining\$2 close adjacent\$2 contiguous\$2 proximate\$2 ) ) WITH ( luminance luma luminosity brightness lightness L\$1 Y intensity TONE\$1 ( ( luminance luma luminosity brightness lightness L\$1 Y intensity TONE\$1 ) NEAR8 ( range\$1 (dynamic ADJ range\$1) ) ( ( luminance luma luminosity brightness lightness L\$1 Y intensity TONE\$1 ) NEAR8 ( mapping map\$1 mapped match\$3 correct\$3 correction\$1 convert\$3 conversion\$1 ) ) ) </pre>	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 19:03
L23	36612	<pre> ( ( ( shadow\$1 ( ( low lower reduced NEAR5 ( luminance luma luminosity brightness lightness L\$1 Y intensity TONE\$1 ) ) ) NEAR8 ( area\$1 region\$1 sub\$1area\$1 (sub ADJ area\$1) sub\$1regions\$1 (sub ADJ region\$1) ) ( shadow\$1 ( ( low lower reduced ) NEAR5 ( luminance luma luminosity brightness lightness L\$1 Y intensity TONE\$1 ) ) ) ) SAME ( filter\$3 (filter\$3 NEAR5 (low\$1pass (low ADJ pass))) blur\$4 ) </pre>	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 19:05
L24	3727	(16 17 18 20) and 21 and 22 and 23	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 19:07
L25	3322	(16 17 18 20) and ((21 22) SAME 23)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 19:09
L26	10618	(16 17 18 20) and ((21 22) and 23)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 19:09
L27	7002	358/1.9.ccls.	US-PGPUB; USPAT	OR	ON	2009/09/19 19:11
L28	2821	358/518.ccls.	US-PGPUB; USPAT	OR	ON	2009/09/19 19:11
L29	363	358/519.ccls.	US-PGPUB; USPAT	OR	ON	2009/09/19 19:11

## EAST Search History (Prior Art)

L30	757	358/520.ccls.	US-PGPUB; USPAT	OR	ON	2009/09/19 19:11
L31	502	358/521.ccls.	US-PGPUB; USPAT	OR	ON	2009/09/19 19:11
L32	195	358/522.ccls.	US-PGPUB; USPAT	OR	ON	2009/09/19 19:11
L33	711	358/523.ccls.	US-PGPUB; USPAT	OR	ON	2009/09/19 19:11
L34	2065	382/162.ccls.	US-PGPUB; USPAT	OR	ON	2009/09/19 19:11
L35	2345	382/167.ccls.	US-PGPUB; USPAT	OR	ON	2009/09/19 19:11
L36	261	345/590.ccls.	US-PGPUB; USPAT	OR	ON	2009/09/19 19:11
L37	289	345/591.ccls.	US-PGPUB; USPAT	OR	ON	2009/09/19 19:11
L38	84	386/44.ccls.	US-PGPUB; USPAT	OR	ON	2009/09/19 19:11
L39	2326	348/222.1.ccls.	US-PGPUB; USPAT	OR	ON	2009/09/19 19:11
L40	43	348/235.ccls.	US-PGPUB; USPAT	OR	ON	2009/09/19 19:11
L41	291	348/663.ccls.	US-PGPUB; USPAT	OR	ON	2009/09/19 19:11
L42	72	348/668.ccls.	US-PGPUB; USPAT	OR	ON	2009/09/19 19:11
L43	222	358/3.24.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 19:11
L44	651	358/515.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 19:11
L45	124	358/517.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 19:11
L46	375	358/525.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 19:11

## EAST Search History (Prior Art)

L47	266	358/537.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 19:11
L48	1714	382/254.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 19:11
L49	1394	382/260.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 19:11
L50	558	382/261.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 19:11
L51	636	382/264.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 19:11
L52	1137	382/266.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 19:11
L53	294	382/269.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 19:11
L54	1867	382/274.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 19:11
L55	1802	382/275.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 19:11
L56	1922	345/589.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 19:11

## EAST Search History (Prior Art)

L57	261	345/590.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 19:11
L58	289	345/591.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 19:11
L59	23465	L27 L28 L29 L30 L31 L32 L33 L34 L35 L36 L37 L38 L39 L40 L41 L42 L43 L44 L45 L46 L47 L48 L49 L50 L51 L52 L53 L54 L55 L56 L57 L58	US-PGPUB; USPAT	OR	ON	2009/09/19 19:11
L60	2819	24 not (8 9 10)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 19:11
L61	321	60 and 59	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 19:11
L62	211	61 and @ad<="20031211"	US-PGPUB; USPAT	OR	ON	2009/09/19 19:12
L63	110	61 not 62	US-PGPUB; USPAT	OR	ON	2009/09/19 19:12
L65	2498	24 not (8 9 10 62 63)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 19:16
L66	2549	25 not (8 9 10 62 63)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 19:17
L67	102	66 and 59	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 19:17
L68	65	67 and @ad<="20031211"	US-PGPUB; USPAT	OR	ON	2009/09/19 19:17
L69	37	67 not 68	US-PGPUB; USPAT	OR	ON	2009/09/19 19:17

## EAST Search History (Prior Art)

L70	2447	25 not (8 9 10 62 63 68 69)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 19:18
L71	8100	26 not (8 9 10 62 63 68 69)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 19:18
L72	258	71 AND 59	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 19:19
L73	166	72 and @ad<= "20031211"	US-PGPUB; USPAT	OR	ON	2009/09/19 19:19
L74	92	72 NOT 73	US-PGPUB; USPAT	OR	ON	2009/09/19 19:19
L75	7842	26 not (8 9 10 62 63 68 69 73 74)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/19 19:21
S37 4	7002	358/1.9.ccls.	US-PGPUB; USPAT	OR	ON	2009/09/17 13:46
S37 5	2821	358/518.ccls.	US-PGPUB; USPAT	OR	ON	2009/09/17 13:46
S37 6	363	358/519.ccls.	US-PGPUB; USPAT	OR	ON	2009/09/17 13:46
S37 7	757	358/520.ccls.	US-PGPUB; USPAT	OR	ON	2009/09/17 13:46
S37 8	502	358/521.ccls.	US-PGPUB; USPAT	OR	ON	2009/09/17 13:46
S37 9	195	358/522.ccls.	US-PGPUB; USPAT	OR	ON	2009/09/17 13:46
S38 0	711	358/523.ccls.	US-PGPUB; USPAT	OR	ON	2009/09/17 13:46
S38 1	2065	382/162.ccls.	US-PGPUB; USPAT	OR	ON	2009/09/17 13:46
S38 2	2345	382/167.ccls.	US-PGPUB; USPAT	OR	ON	2009/09/17 13:46
S38 3	261	345/590.ccls.	US-PGPUB; USPAT	OR	ON	2009/09/17 13:46
S38 4	289	345/591.ccls.	US-PGPUB; USPAT	OR	ON	2009/09/17 13:46
S38 5	84	386/44.ccls.	US-PGPUB; USPAT	OR	ON	2009/09/17 13:46

## EAST Search History (Prior Art)

S38 6	2326	348/222.1.ccls.	US-PGPUB; USPAT	OR	ON	2009/09/17 13:46
S38 7	43	348/235.ccls.	US-PGPUB; USPAT	OR	ON	2009/09/17 13:46
S38 8	291	348/663.ccls.	US-PGPUB; USPAT	OR	ON	2009/09/17 13:46
S38 9	72	348/668.ccls.	US-PGPUB; USPAT	OR	ON	2009/09/17 13:46
S39 0	15109	S374 S375 S376 S377 S378 S379 S380 S381 S382 S383 S384 S385 S386 S387 S388 S389	US-PGPUB; USPAT	OR	ON	2009/09/17 13:46
S39 1	222	358/3.24.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:14
S39 2	651	358/515.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:14
S39 3	124	358/517.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:14
S39 4	375	358/525.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:14
S39 5	266	358/537.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:14
S39 6	1714	382/254.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:14
S39 7	1394	382/260.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:14
S39 8	558	382/261.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:14

## EAST Search History (Prior Art)

S39 9	636	382/264.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:15
S40 0	1137	382/266.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:15
S40 1	294	382/269.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:15
S40 2	1867	382/274.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:15
S40 3	1802	382/275.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:15
S40 4	1922	345/589.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:16
S40 5	261	345/590.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:16
S40 6	289	345/591.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:16
S40 7	23465	S374 S375 S376 S377 S378 S379 S380 S381 S382 S383 S384 S385 S386 S387 S388 S389 S391 S392 S393 S394 S395 S396 S397 S398 S399 S400 S401 S402 S403 S404 S405 S406	US-PGPUB; USPAT	OR	ON	2009/09/17 14:17
S40 8	154844	( ( gamut\$1 colo\$1r\$1 ) NEAR3 ( mapping map\$1 mapped match\$3 correct\$3 correction\$1 characteri\$1ation\$1 characteri\$1e\$1 characteri\$1ing convert\$3 conversion\$1 ) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:18

## EAST Search History (Prior Art)

S40 9	26120	( compress\$3 compression\$1 ) NEAR5 ( luminance luma luminosity brightness lightness L\$1 Y intensity )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:19
S41 0	7242	( clip\$4 ) NEAR5 ( luminance luma luminosity brightness lightness L\$1 Y intensity )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:19
S41 1	160569	( ( range\$1 (dynamic ADJ range\$1) ) NEAR5 ( luminance luma luminosity brightness lightness L\$1 Y intensity ) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:20
S41 2	348883	( ( ( pre\$1serv\$3 preservation\$1 maintain\$3 retain\$3 enhanc\$3 enhancement\$1 improv\$3 improvement\$1 emphasi\$1ing emphasi\$1e\$1 emphasis expand\$3 expansion\$1 maximi\$1ing maximi\$1e\$1 maximum boost\$3 increas\$3 rais\$3 strengthen\$3 intensify\$3 intensifie\$1 decreas\$3 degrad\$3 diminish\$3 diminishment\$1 deteriorat\$3 deterioration\$1 destroy\$3 lessen\$3 lower\$3 reduc\$3 reduction\$1 compress\$3 compression\$1 attenuat\$3 attenuation\$1 weaken\$3 ) NEAR5 ( contrast (overall NEAR3 contrast) detail\$1 ( ( image\$1 picture\$1 photo\$1 photograph\$1 ) NEAR5 ( detail\$1 feature\$1 characteristic\$1 distinction\$1 nuance\$1 subtlet\$3 ) ) ( ( detail\$1 feature\$1 characteristic\$1 distinction\$1 nuance\$1 subtlet\$3 ) NEAR5 ( shadow\$1 ( ( low lower reduced ) NEAR3 ( luminance luma luminosity brightness lightness L\$1 Y ) ) high\$1light\$1 mid\$1tone\$1 ) ) ) ( ( mapping map\$1 mapped match\$3 ) NEAR5 ( "same" identical equal similar alike indistinguishable ) NEAR5 ( luminance luma luminosity brightness lightness L\$1 Y intensity ) ) ) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:21

## EAST Search History (Prior Art)

S41 3	293907	<pre>( ( ( vary\$3 varies varied variation\$1     changing change\$1 alter\$4 alteration\$1     adjust\$3 adjustment\$1 adapt\$3 adaptive\$2     convert\$3 conversion\$1 ) NEAR5 ( spatial\$2         local\$2 local\$1e\$1 neighbor\$3         neighborhood\$1 bordering nearby         adjoining\$2 close adjacent\$2 contiguous\$2         proximate\$2 ) ) ( spatial\$2 local\$2         local\$1e\$1 neighbor\$3 neighborhood\$1         bordering nearby adjoining\$2 close         adjacent\$2 contiguous\$2 proximate\$2 ) )         WITH ( luminance luma luminosity             brightness lightness L\$1 Y intensity ( (                 luminance luma luminosity brightness                 lightness L\$1 Y intensity ) NEAR5 ( range\$1                 (dynamic ADJ range\$1) ) ) ( ( luminance                 luma luminosity brightness lightness L\$1 Y                 intensity ) NEAR5 ( mapping map\$1 mapped                 match\$3 correct\$3 correction\$1 convert\$3                 conversion\$1 ) ) ) )</pre>	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:21
S41 5	11920	<pre>( ( ( shadow\$1 ( ( low lower reduced )     NEAR3 ( luminance luma luminosity     brightness lightness L\$1 Y intensity ) ) )     NEAR5 ( area\$1 region\$1 sub\$1area\$1 (sub         ADJ area\$1) sub\$1regions\$1 (sub ADJ         region\$1) ) ) ( shadow\$1 ( ( low lower         reduced ) NEAR3 ( luminance luma         luminosity brightness lightness L\$1 Y         intensity ) ) ) ) NEAR10 ( filter\$3 (filter\$3     NEAR5 (low\$1pass (low ADJ pass))) blur\$4 )</pre>	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:28
S41 6	757	(S408 S409 S410 S411) AND S412 AND S413 AND S415	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:30
S41 7	2095	(S408 S409 S410 S411) AND (S412 S413) AND S415	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:30
S41 8	431	(S408 S409 S410 S411) AND ((S412 S413) SAME S415)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:30
S41 9	180	S416 and S407	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:31
S42 0	116	S419 and @ad<="20031211"	US-PGPUB; USPAT	OR	ON	2009/09/17 14:31

## EAST Search History (Prior Art)

S42 1	64	S419 not S420	US-PGPUB; USPAT	OR	ON	2009/09/17 14:32
S42 2	577	S416 not (S420 S421)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:32
S42 3	24	S422 and "358".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:32
S42 4	81	S422 and "382".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:33
S42 5	113	S422 and "345".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:33
S42 6	193	S422 and "348".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:33
S42 7	22	S422 and "386".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:33
S42 8	60	(S423 S424) and @ad<="20031211"	US-PGPUB; USPAT	OR	ON	2009/09/17 14:34
S42 9	42	(S423 S424) not S428	US-PGPUB; USPAT	OR	ON	2009/09/17 14:35
S43 0	475	S416 not (S420 S421 S428 S429)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:35
S43 1	105	S430 and "345".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:35
S43 2	181	S430 and "348".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:35

## EAST Search History (Prior Art)

S43 3	21	S430 and "386".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:35
S43 4	171	(S431 S432 S433) and @ad<="20031211"	US-PGPUB; USPAT	OR	ON	2009/09/17 14:35
S43 5	108	(S431 S432 S433) not S434	US-PGPUB; USPAT	OR	ON	2009/09/17 14:36
S43 6	196	S416 not (S420 S421 S428 S429 S434 S435)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:36
S43 7	109	S436 and @ad<="20031211"	US-PGPUB; USPAT	OR	ON	2009/09/17 14:36
S43 8	87	S436 not S437	US-PGPUB; USPAT	OR	ON	2009/09/17 14:37
S43 9	0	S416 not (S420 S421 S428 S429 S434 S435 S437 S438)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:37
S44 0	218	S418 not (S420 S421 S428 S429 S434 S435 S437 S438)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:38
S44 1	36	S440 AND S407	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:38
S44 2	27	S441 and @ad<="20031211"	US-PGPUB; USPAT	OR	ON	2009/09/17 14:38
S44 3	9	S441 NOT S442	US-PGPUB; USPAT	OR	ON	2009/09/17 14:38
S44 4	182	S418 not (S420 S421 S428 S429 S434 S435 S437 S438 S442 S443)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:38
S44 5	2	S444 and "358".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:39

## EAST Search History (Prior Art)

S44 6	13	S444 and "382".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:39
S44 7	18	S444 and "345".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:39
S44 8	60	S444 and "348".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:39
S44 9	5	S444 and "386".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:39
S45 0	57	(S445 S446 S447 S448 S449) and @ad<="20031211"	US-PGPUB; USPAT	OR	ON	2009/09/17 14:39
S45 1	27	(S445 S446 S447 S448 S449) not S450	US-PGPUB; USPAT	OR	ON	2009/09/17 14:39
S45 2	98	S418 not (S420 S421 S428 S429 S434 S435 S437 S438 S442 S443 S450 S451)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:40
S45 3	56	S452 and @ad<="20031211"	US-PGPUB; USPAT	OR	ON	2009/09/17 14:40
S45 4	34	S452 not S453	US-PGPUB; USPAT	OR	ON	2009/09/17 14:41
S45 5	8	S418 not (S420 S421 S428 S429 S434 S435 S437 S438 S442 S443 S450 S451 S453 S454)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:41
S45 6	0	S418 not (S420 S421 S428 S429 S434 S435 S437 S438 S442 S443 S450 S451 S453 S454 S455)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:42
S45 7	1120	S417 not (S420 S421 S428 S429 S434 S435 S437 S438 S442 S443 S450 S451 S453 S454 S455)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:42

## EAST Search History (Prior Art)

S45 8	147	S457 AND S407	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:42
S45 9	92	S458 and @ad<="20031211"	US-PGPUB; USPAT	OR	ON	2009/09/17 14:42
S46 0	55	S458 NOT S459	US-PGPUB; USPAT	OR	ON	2009/09/17 14:43
S46 1	973	S417 not (S420 S421 S428 S429 S434 S435 S437 S438 S442 S443 S450 S451 S453 S454 S455 S459 S460)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:43
S46 2	19	S461 AND "358".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:43
S46 3	107	S461 and "382".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:44
S46 4	107	S461 and "345".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:44
S46 5	291	S461 and "348".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:44
S46 6	57	S461 and "386".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:44
S46 7	79	(S462 S463) and @ad<="20031211"	US-PGPUB; USPAT	OR	ON	2009/09/17 14:44
S46 8	39	(S462 S463) not S467	US-PGPUB; USPAT	OR	ON	2009/09/17 14:44
S46 9	855	S417 not (S420 S421 S428 S429 S434 S435 S437 S438 S442 S443 S450 S451 S453 S454 S455 S459 S460 S467 S468)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:45

## EAST Search History (Prior Art)

S47 0	102	S469 and "345".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:45
S47 1	279	S469 and "348".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:45
S47 2	56	S469 and "386".clas.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:45
S47 3	276	(S470 S471 S472) and @ad<= "20031211"	US-PGPUB; USPAT	OR	ON	2009/09/17 14:45
S47 4	106	(S470 S471 S472) not S473	US-PGPUB; USPAT	OR	ON	2009/09/17 14:46
S47 5	473	S417 not (S420 S421 S428 S429 S434 S435 S437 S438 S442 S443 S450 S451 S453 S454 S455 S459 S460 S467 S468 S473 S474)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:47
S47 6	301	S475 and @ad<= "20031211"	US-PGPUB; USPAT	OR	ON	2009/09/17 14:47
S47 7	170	S475 not S476	US-PGPUB; USPAT	OR	ON	2009/09/17 14:48
S47 8	2	S417 not (S420 S421 S428 S429 S434 S435 S437 S438 S442 S443 S450 S451 S453 S454 S455 S459 S460 S467 S468 S473 S474 S476 S477)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:48
S47 9	0	S417 not (S420 S421 S428 S429 S434 S435 S437 S438 S442 S443 S450 S451 S453 S454 S455 S459 S460 S467 S468 S473 S474 S476 S477 S478)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/09/17 14:48
S48 0	7	("6256424"   "6480300"   "6603886"   "6674544"   "6678420").PN. OR ("6807316").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/17 19:52
S48 1	29	("2031728"   "2179414"   "3790702"   "4030121"   "4459677"   "4812905"   "4833527"   "4985853"   "5008741"   "5068718"   "5087966"   "5124688"   "5196924"   "5196937"   "5202763"   "5291102"   "5311297").PN. OR ("5543820").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/17 20:03
S48 2	24	S481 and @ad<= "20031211"	US-PGPUB; USPAT	OR	ON	2009/09/17 20:07

## EAST Search History (Prior Art)

S48 3	3	S481 not S482	US-PGPUB; USPAT	OR	ON	2009/09/17 20:07
S48 4	16	("20010007599"   "4792979"   "5426517"   "5852678"   "6259823"   "6285798"   "6417891"   "6473198"   "6552731"   "6639690").PN. OR ("6792160").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/17 20:38

## EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S48 5	93	(BALA with RAJA).in.	US-PGPUB; USPAT; UPAD	OR	ON	2009/09/17 13:34
S48 6	23390	(XEROX with CORPORATION).as.	US-PGPUB; USPAT; UPAD	OR	ON	2009/09/17 13:34
S48 7	32093	(XEROX).as.	US-PGPUB; USPAT; UPAD	OR	ON	2009/09/17 13:34
S48 8	938	(luminance AND compression).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2009/09/17 13:39
S48 9	170	(luminance WITH (dynamic ADJ range\$1)).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2009/09/17 13:39
S49 0	214	(luminance AND blend\$3).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2009/09/17 13:40
S49 1	27	(S485 S486 S487) AND (S488 S489 S490)	US-PGPUB; USPAT; UPAD	OR	ON	2009/09/17 13:41
S49 2	90	S485 not S491	US-PGPUB; USPAT; UPAD	OR	ON	2009/09/17 13:42